WISEDASH BROWN BAG

September 12, 2012

WHY WISEDASH?

- Provide an integrated educational analysis and reporting system to support
  - School and district staff making decisions to improve student achievement
  - Parents and community members learning more about their schools
  - Accurate and timely data reporting to meet Federal, State, and local requirements
  - Diagnostic and policy-relevant research
- Statewide, integrated, consistent
- Ultimately, we aim to increase data-informed decision-making at the state, district, school, classroom, and student level

DATA AND REPORTING

Data System Background Pre-Grant

- Implementation of an individual student enrollment system data collection in 2004-05. Included third Friday enrollment, year end indicators, discipline, and IDEA child count.

- Creation of a Unique Student ID (WSN) for all WI public students through Wisconsin Student Locator System (WSLS)

- Student data available starting with the 2005-06 school year.
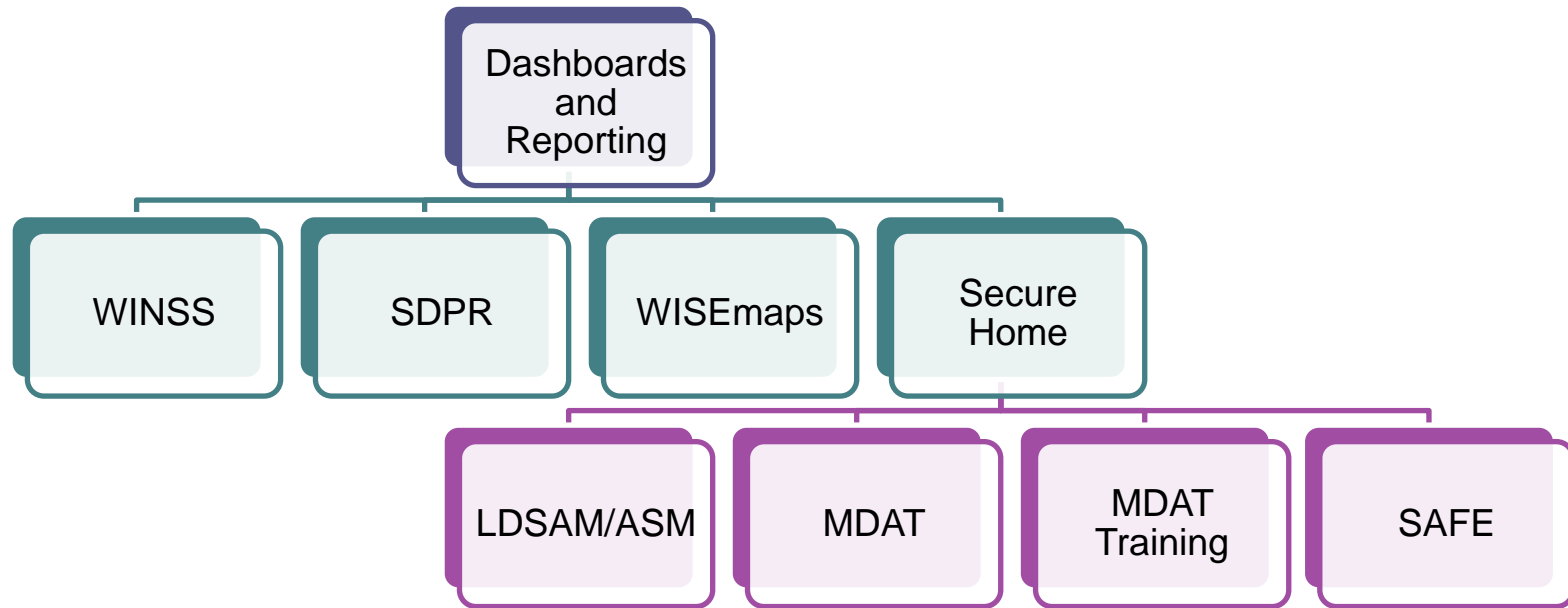
SLDS Grants
1ST Generation Data Projects

- Multiple Data Sources
  - Collection Systems, Spreadsheets, External Files
- LDS Data Warehouse or ODS
  - First student-centric data warehouse at DPI
  - Stored and linked student and school data from a variety of sources including collection systems, spreadsheets, and external files for reporting and analysis
    - ISES YE, ISES CD, ISES Discipline, WSAS, ACT, AP, SGP, ACCESS ELL, Graduation, School Data, WSLS, State Outcomes Data, P20 NSC Enrollment Data, Student Growth Percentile (SGP) Data, Graduation Cohort and Rate Data
- Coursework Completion System (CWCS)
  - Course data including a student-teacher-course link

SLDS Grants
1st Generation Dashboard and reporting Projects

- Dashboards and Reporting
  - WINSS
  - SDPR
  - WISEmaps
  - Secure Home
    - LDSAM/ASM
    - MDAT
    - MDAT Training
    - SAFE

SLDS Grants
Next Generation Data, Dashboards, Reporting

- DPI purchased a suite of data, dashboard and reporting tools
  - Data Model & Dashboard from VersiFit Technologies
    - Based in Appleton
    - Serves MMSD, MPS, Chicago Public Schools, Oregon State, Hawaii, etc.
    - Focus on business intelligence solutions specific to education
    - Contract signed 02/16/11
  - ETL and Reporting tools from Microsoft
    - Reporting tool will also be utilized throughout the agency for operational reporting.
  - The LDS ODS is now currently being used as a data store as we transition to our new data warehouse system.
  - Wisconsin Information System for Education Dashboard solution or WISEdash, powered by Edvantage

WISEDASH, POWERED BY EDVANTAGE

- Education **data model** structured to enable smart, reporting on education data
  - Store and link student and school data from a variety of sources including collection systems, spreadsheets, and external files for reporting and analysis
    - Enrollment data, test scores, student growth, graduation, postsecondary enrollment
- Role based **data access & dashboards**
- **Public & secured reporting** through the same technology to a wide variety of users with a wide variety of data needs
- **Simple ad hoc reporting** functionality (choose a district, choose a demographic)
- **Advanced reporting** capabilities for a limited number of power users at the district and state level to create customizable reports
- Documentation, including professional development resources such as pre-made **workbooks to guide understanding** and use of dashboards and reports
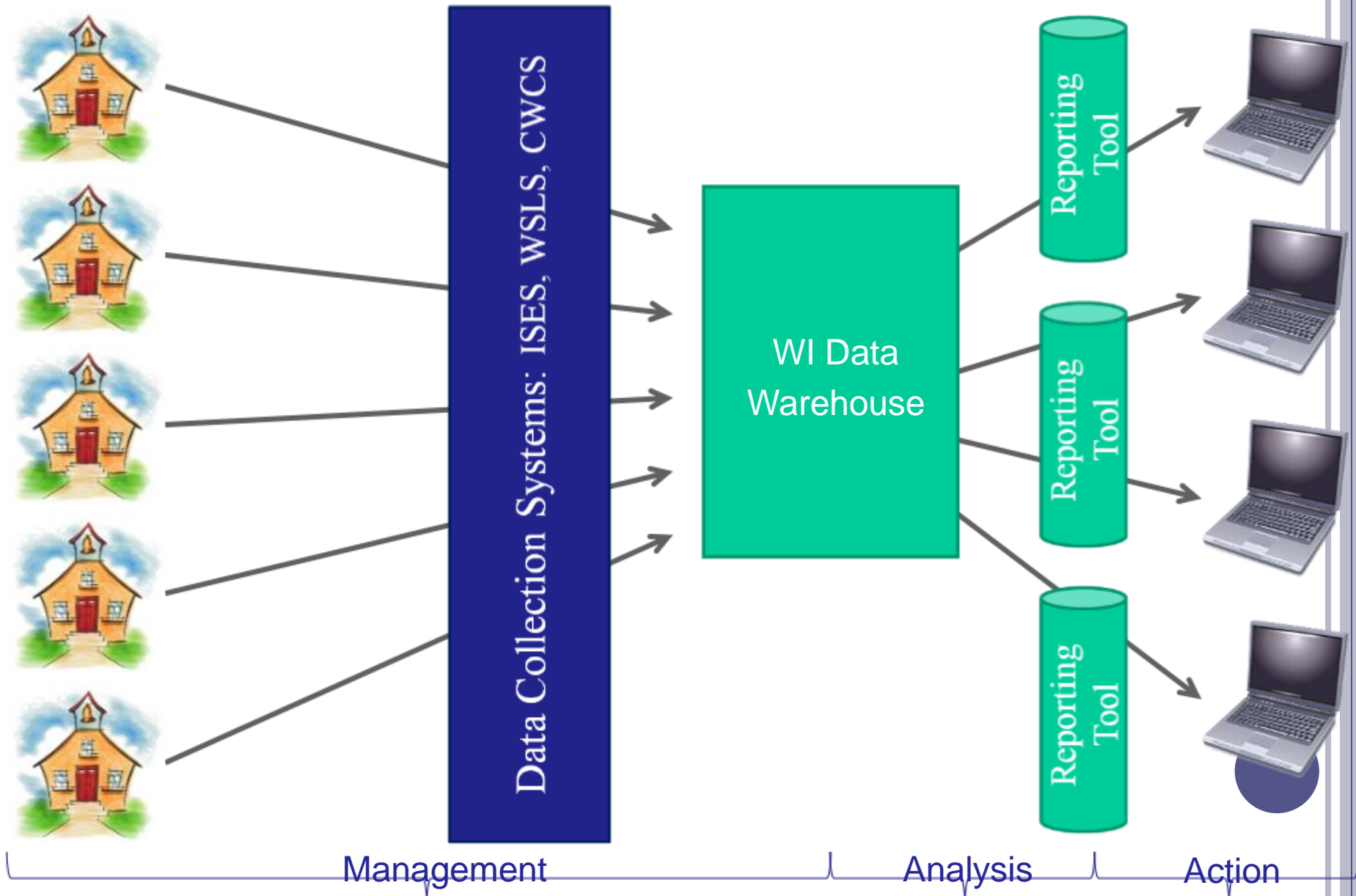- Opportunity for collaboration, already used by MMSD and MPS in Wisconsin
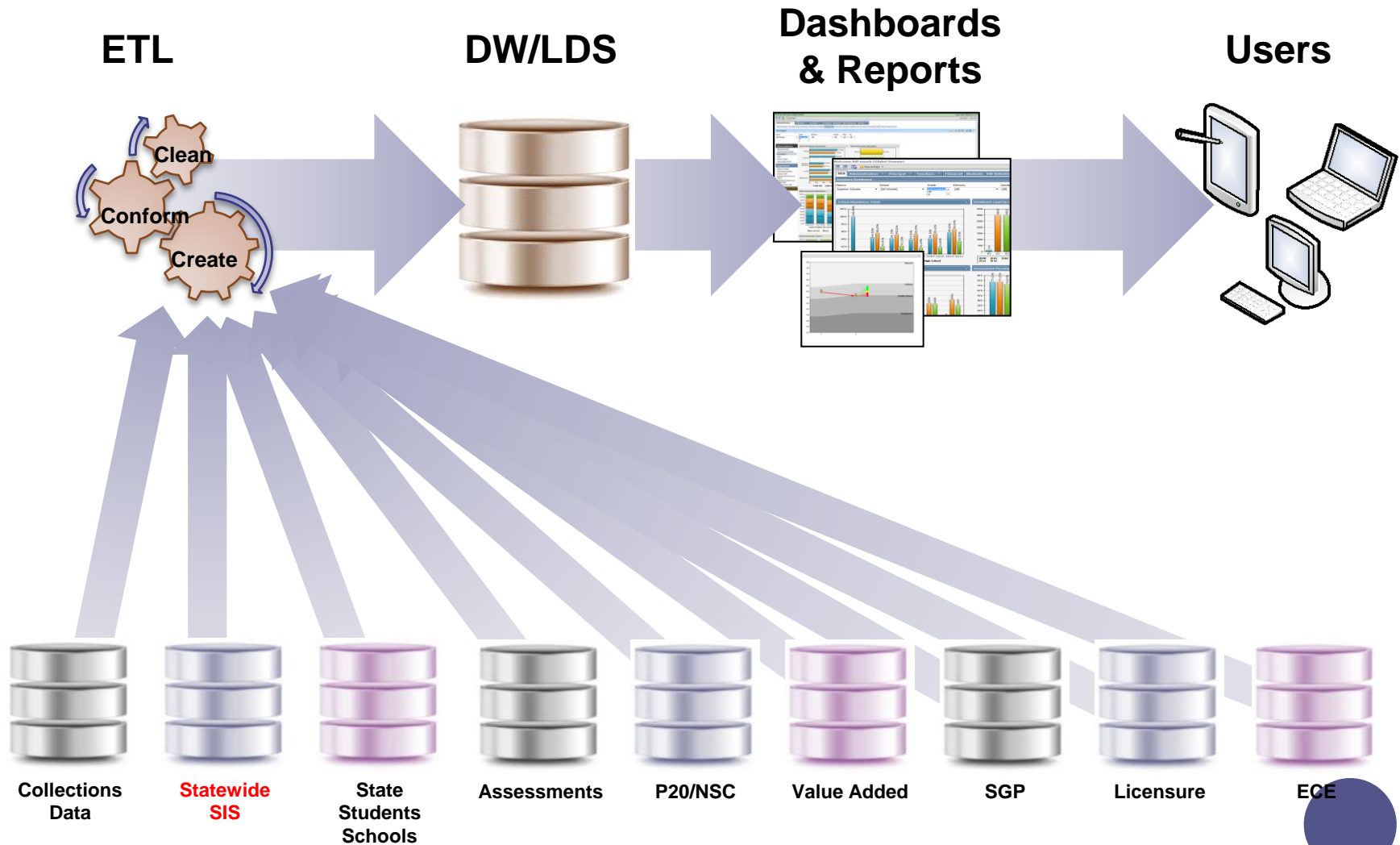
DATA ACCESS & REPORTING AT DPI

- The many components of implementation
  - Architecture – servers, software, etc.
  - Data warehouse – moving data into the new data model
  - Security, access, and administration – role-based access, authentication
  - Communication, Training, and Documentation – empowering users
  - Analysis and Reporting – building useful, easy-to-use dashboards and reports

Statewide Information System "Picture"

Data Collection Systems: ISES, WSLS, CWCS

WI Data Warehouse

Reporting Tool

Reporting Tool

Reporting Tool

Management | Analysis | Action

WISEdash Architecture

ETL

Clean
Conform
Create

DW/LDS

Dashboards & Reports

Users

| Collections Data | Statewide SIS | State Students Schools | Assessments | P20/NSC | Value Added | SGP | Licensure | ECE |

EDVANTAGE™ DOMAINS
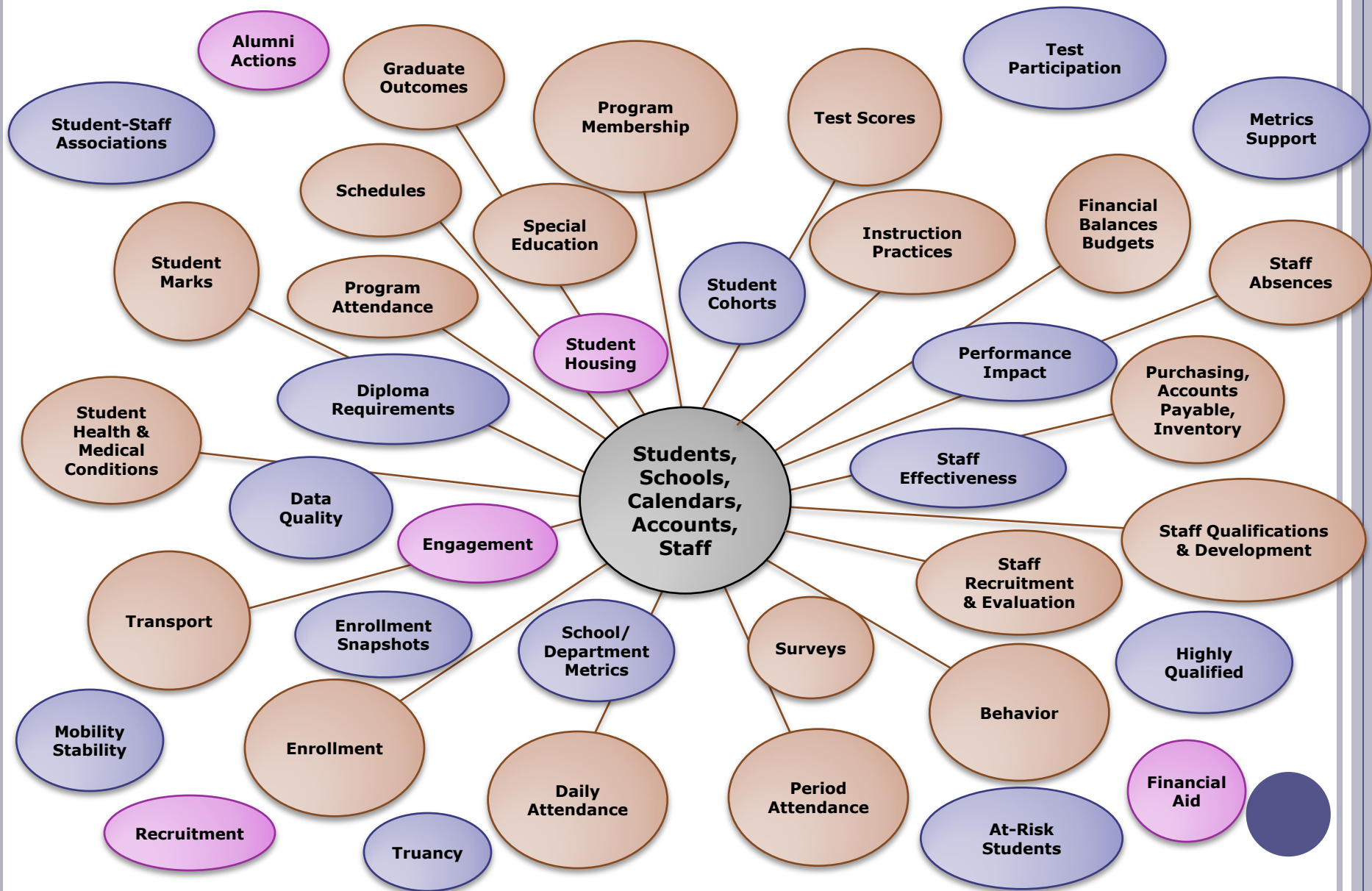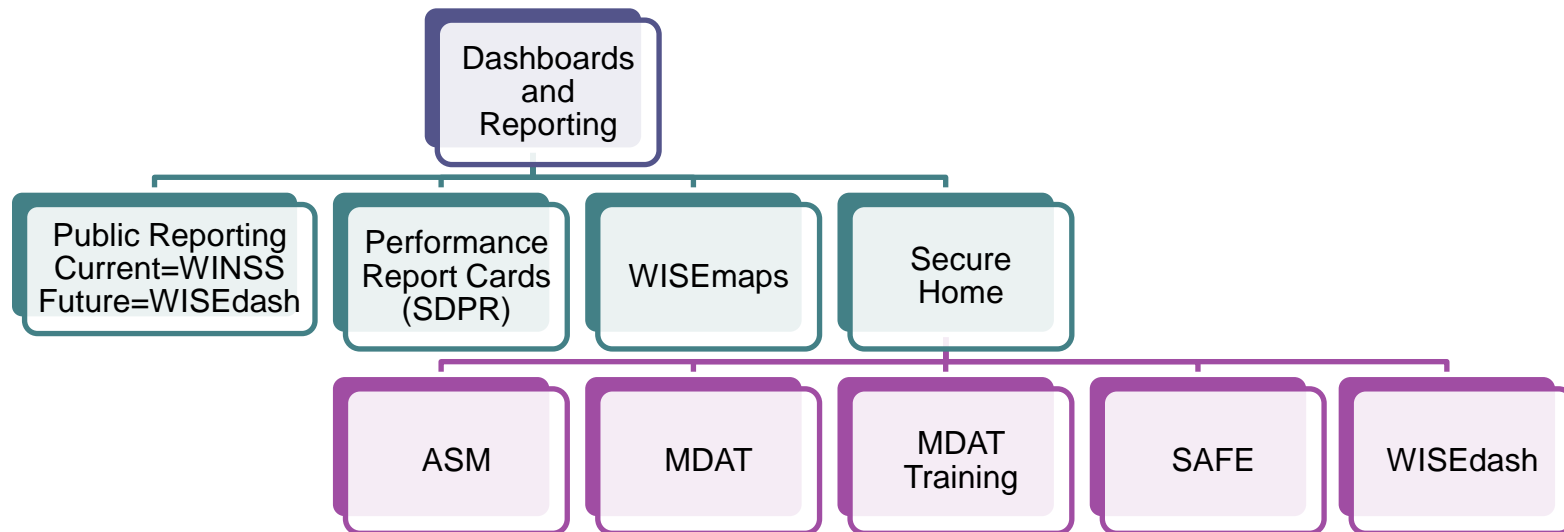
SLDS Grants
Dashboards and reporting

WISEDASH TUTORIAL DEMO

District Summary | Strategic Plan | Enrollment | Attendance | Discipline | Assessments | Marks | AP Courses | Graduation Req | Programs | Analytics | Staff | Demo

Summary Dashboard

School
[All Schools] ▾

Grade
[All Grades]
PK
K

Ethnicity
[All] ▾

Gender
[All] ▾

SPED
[All] ▾

ELL
[All] ▾

Sample Reports

Absence Analysis
Achievement Summary
Dropout Profile
Operating Performance vs. Budget
Operating Performance vs. Budget Detail
Students Not on Track

Other Links

Administrative Home
Teachers Home
School Enrollment Report
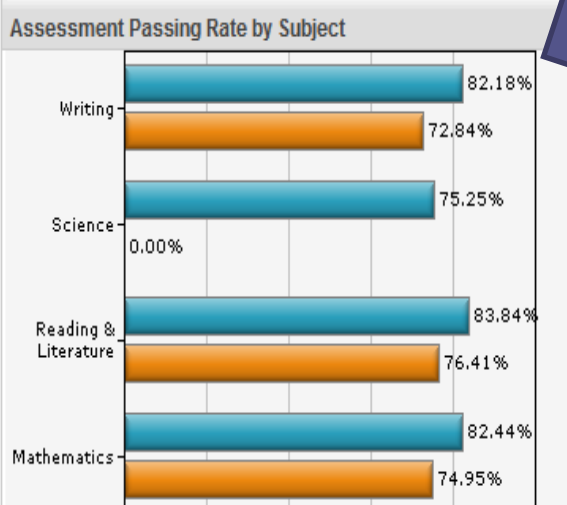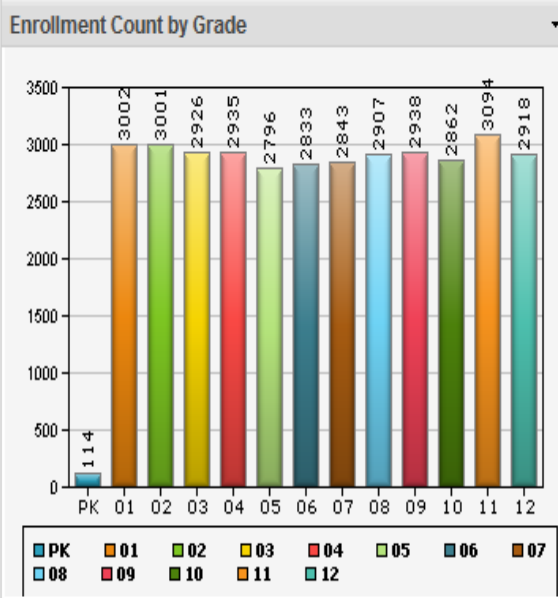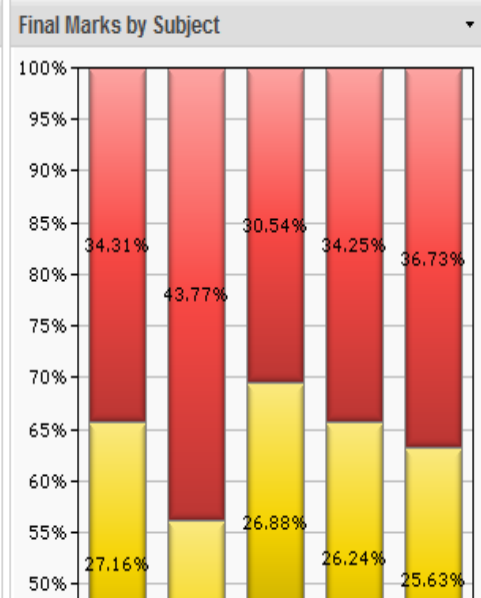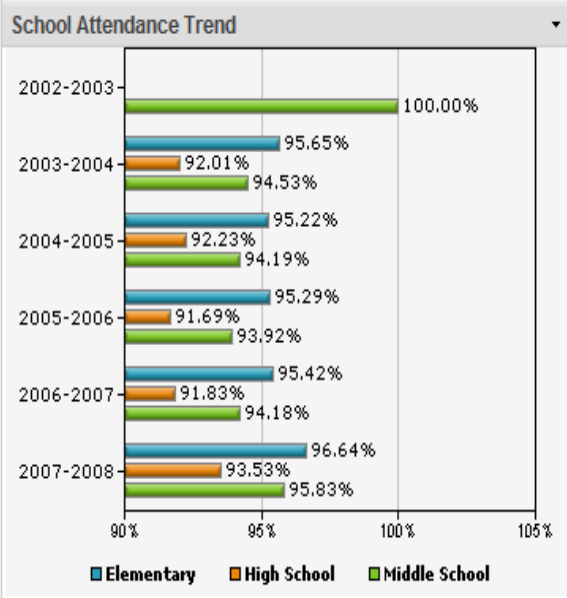Google for Educators

School Attendance Trend

	Elementary	High School	Middle School
2002-2003	100.00%		
2003-2004	95.65%	92.01%	94.53%
2004-2005	95.22%	92.23%	94.19%
2005-2006	95.29%	91.69%	93.92%
2006-2007	95.42%	91.83%	94.18%
2007-2008	96.64%	93.53%	95.83%

Assessment Passing Rate by Subject

Writing — 82.18% / 72.84%
Science — 75.25% / 0.00%
Reading & Literature — 83.84% / 76.41%
Mathematics — 82.44% / 74.95%

Final Marks by Subject

English: 34.31%, 27.16%, 18.45%, 9.67%, 10.41%
Foreign: 43.77%, 27.79%, 16.15%, 6.81%, 5.48%
Mathematics: 30.54%, 26.88%, 21.22%, 9.75%, 11.60%
Sciences: 34.25%, 26.24%, 19.62%, 9.50%, 10.40%
Social: 36.73%, 25.63%, 18.32%, 9.91%, 9.41%

Enrollment Count by Grade

PK 114, 01 3002, 02 3001, 03 2926, 04 2935, 05 2796, 06 2833, 07 2843, 08 2907, 09 2938, 10 2862, 11 3094, 12 2918

Legend: PK, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12

Program Participation by School

School	FARM	SPED	TAG
District Total	31.28%	10.89%	11.08%
Charter School	57.53%	21.92%	0.91%
Elm Park Middle	25.51%	12.47%	16.44%
Errol Flynn Elementary	24.26%	12.22%	5%
Faraday Elementary	55.48%	14.29%	3.09%
Forrest Mt. Elementary	9.63%	13.61%	5.96%
Fox Hills School	32.93%	18.16%	5.99%
Frahm Middle	12.75%	9.29%	16.48%
Frankford Middle	40.15%	14.74%	20.97%
Ghandi Elementary	80.2%	8.6%	1.3%

District Summary | Strategic Plan | Enrollment | Attendance | Discipline | Assessments | Marks | AP Courses | Graduation Req | Programs | Analytics | Staff | Demo

Summary Dashboard

School
[All Schools] ▾

Grade
[All Grades] ▲
PK
K ▼

Ethnicity
[All] ▾

Gender
[All] ▾

SPED
[All] ▾

ELL
[All] ▾

Sample Reports
- Absence Analysis
- Achievement Summary
- Dropout Profile
- Operating Performance vs. Budget
- Operating Performance vs. Budget Detail
- Students Not on Track

Other Links
- Administrative Home
- Teachers Home
- School Enrollment Report
- Google for Educators

School Attendance Trend

Year	Elementary	High School	Middle School
2002-2003	100.00%		
2003-2004	95.65%	92.01%	94.53%
2004-2005	95.22%	92.23%	94.19%
2005-2006	95.29%	91.69%	93.92%
2006-2007	95.42%	91.83%	94.18%
2007-2008	96.64%	93.53%	95.83%

☐ Elementary ☐ High School ☐ Middle School

Assessment Passing Rate by Subject

Subject		
Writing	82.18%	72.84%
Science	75.25%	0.00%
Reading & Literature	83.84%	76.41%
Mathematics	82.44%	74.95%

Final Marks by Subject

	English	Foreign	Mathematics	Sciences	Social
Red (top)	34.31%	43.77%	30.54%	34.25%	36.73%
Yellow	27.16%		26.88%	26.24%	25.63%
Green	18.45%	16.15%	21.22%	19.62%	18.32%
Orange	9.67%	6.81%	9.75%	9.50%	9.91%
Blue	10.41%	5.48%	11.60%	10.40%	9.41%

Enrollment Count by Grade

PK	01	02	03	04	05	06	07	08	09	10	11	12
114	3002	3001	2926	2935	2796	2833	2843	2907	2938	2862	3094	2918

☐ PK ☐ 01 ☐ 02 ☐ 03 ☐ 04 ☐ 05 ☐ 06 ☐ 07
☐ 08 ☐ 09 ☐ 10 ☐ 11 ☐ 12

Program Participation by School

School	FARM	SPED	TAG
District Total	31.28%	10.89%	11.08%
Charter School	57.53%	21.92%	0.91%
Elm Park Middle	25.51%	12.47%	16.44%
Errol Flynn Elementary	24.26%	12.22%	5%
Faraday Elementary	55.48%	14.29%	3.09%
Forrest Mt. Elementary	9.63%	13.61%	5.96%
Fox Hills School	32.93%	18.16%	5.99%
Frahm Middle	12.75%	9.29%	16.48%
Frankford Middle	40.15%	14.74%	20.97%
Ghandi Elementary	80.2%	8.6%	1.3%

Final Marks by Subject Details

School	Grade	Ethnicity	Gender	SPED	ELL
[All Schools] ▼	[All Grades] ▲ PK K ▼	[All] ▼	[All] ▼	[All] ▼	[All] ▼

Course Type [Mathematics ▼] Mark [C ▼]

Total of 1000 row(s) with 1000 Row Limit

	Student Name	Student ID	School Name	Grade Level Current	Course Type	Mark	GPA	Count
👥	Sample Student	190397	Sunrise High	10	Mathematics	C	1.36	4
👥		194936	Oahu High	11	Mathematics	C	2.11	1
👥		196687	Highland Valley Middle	08	Mathematics	C	3.00	1
👥		165137	Northridge High	12	Mathematics	C	3.03	2
👥		199444	River View Middle	08	Mathematics	C	1.50	1
👥		279605	Lumberton High	11	Mathematics	C	3.69	1
👥		258060	Meadow Creek Middle	08	Mathematics	C	2.30	1
👥		202953	Meadow Creek Middle	07	Mathematics	C	0.00	1
👥		184577	Sunrise High	12	Mathematics	C	3.52	1
👥		295715	Pearson High School	11	Mathematics	C	2.04	1
👥		274467	Lumberton High	11	Mathematics	C	1.50	1
👥		185570	Sunrise High	10	Mathematics	C	2.71	1
👥		299621	Highland Valley Middle	07	Mathematics	C		1

Student Profile

Student ID: [Sample ID]

Name	Student ID	Current School	Grade	Status
Sample Student	Sample ID	Sunrise High	10	Active

Demographics

State ID	3859770
Current Homeroom	BK1
School Changes	0
Residence Changes	0
Outside Catchment	No
Gender	Female
Race	White
GPA	1.36

Program Summary

SPED	Regular Classroom with less than 21% Special Class
Gifted Year	
ESL	Not ESL
LEP	NA
Homeless	No
504	No
Indian Ed	NA
Migrant Ed	No

Attendance Summary

Attendance	2007-2008	2006-2007	2005-2006	2004-2005
Attendance	85.00%	96.00%	92.00%	88.00%

Cumulative GPA History

GPA	2007-2008	2006-2007	2005-2006	2004-2005
GPA	1.3571	1.3571	2.0943	0.0

Disipline Incidents Summary

Discipline	2007-2008
Discipline	4

Test Score Summary

Subject	2006-2007	2005-2006	2004-2005
Reading & Literature	238	246	239
Mathematics		237	221
Science		246	
Writing			37
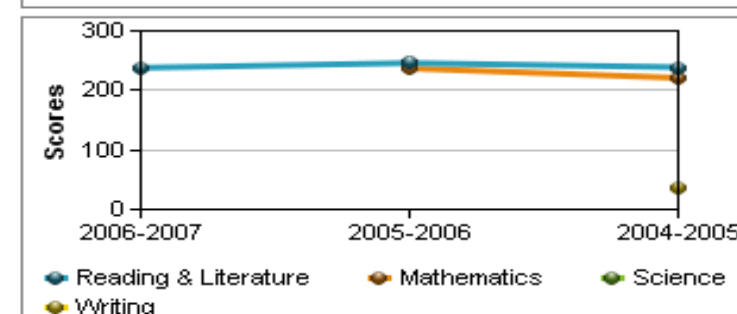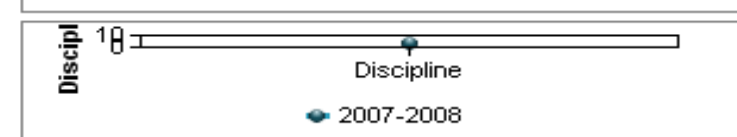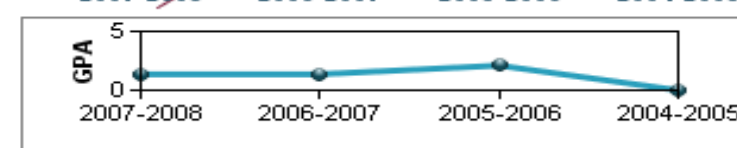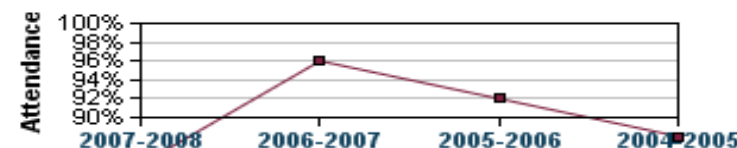
STUDENT PROFILE: ENROLLMENT

Student Profile	Contact Information	Attendance	Schedule	**Enrollments**	Immunizations	Transportation	Dis

Program Membership	Final Marks	Period Marks	Test Scores	Student History	Diploma Requirements	Tests v

Enrollments

Student ID: [Sample ID]

Name	Student ID	Current School	Grade	Status
Sample Student	Sample ID	Sunrise High	10	Active

Begin	End	School	Year	Admission Reason	Withdraw Reason
		[▼]	[▼]	[▼]	[▼]
01/01/0001	01/01/0001	Johnny Walker Elementary	@ERR	E1-No Prev US Curr Yr	PM-Promote
01/01/0001	01/01/0001	Johnny Walker Elementary	@ERR	E1-No Prev US Curr Yr	PM-Promote
01/01/0001	01/01/0001	Johnny Walker Elementary	@ERR	E1-No Prev US Curr Yr	PM-Promote
01/01/0001	01/01/0001	Johnny Walker Elementary	@ERR	E1-No Prev US Curr Yr	PM-Promote
09/03/2002	06/13/2003	Johnny Walker Elementary	2002-2003	E1-No Prev US Curr Yr	PM-Promote
09/02/2003	06/17/2004	Elm Park Middle	2003-2004	E1-No Prev US Curr Yr	PM-Promote
09/08/2004	06/18/2005	Elm Park Middle	2004-2005	E1-No Prev US Curr Yr	PM-Promote
09/06/2005	06/17/2006	Elm Park Middle	2005-2006	E1-No Prev US Curr Yr	PM-Promote
09/05/2006	06/19/2007	Sunrise High	2006-2007	E1-No Prev US Curr Yr	PM-Promote
09/04/2007	06/13/2008	Sunrise High	2007-2008	E1-No Prev US Curr Yr	OPEN ADMISSION

STUDENT PROFILE: ASSESSMENT HISTORY

Student Profile	Contact Information	Attendance	Schedule	Enrollments	Immunizations	Transportation	Dis

Program Membership	Final Marks	Period Marks	**Test Scores**	Student History	Diploma Requirements	Tests

Test Scores

Student ID: | Sample ID

Name	Student ID	Current School	Grade	Status
Sample Student	Sample ID	Sunrise High	10	Active

Year	Grade	Test Class	Subject	Test Group	Score	Test Result
	▼	▼	▼	▼		▼
2006-2007	09	Composite	Reading & Literature	Lexile	1105	Not Specified
2006-2007	09	Composite	Reading & Literature	Total	238	Meets
2006-2007	09	Strand	Reading & Literature	Eval Comp	241	Meets
2006-2007	09	Strand	Reading & Literature	Infer Comp	240	Meets
2006-2007	09	Strand	Reading & Literature	Lit Comp	227	Does Not Meet
2006-2007	09	Strand	Reading & Literature	Lit Forms	244	Meets
2006-2007	09	Strand	Reading & Literature	Loc Inform	247	Meets
2006-2007	09	Strand	Reading & Literature	Word Meaning	239	Meets
2005-2006	08	Composite	Mathematics	Total	229	Does Not Meet
2005-2006	08	Composite	Mathematics	Total	237	Meets
2005-2006	08	Composite	Reading & Literature	Lexile	1250	Not Specified
2005-2006	08	Composite	Reading & Literature	Lexile	1125	Not Specified
2005-2006	08	Composite	Reading & Literature	Total	239	Exceeds
2005-2006	08	Composite	Reading & Literature	Total	246	Exceeds
2005-2006	08	Composite	Science	Total	245	Meets
2005-2006	08	Composite	Science	Total	246	Meets
2005-2006	08	Strand	Science	Earth Sci	247	Exceeds
2005-2006	08	Strand	Science	Earth Sci	244	Meets
2005-2006	08	Strand	Science	Life Sci	239	Meets
2005-2006	08	Strand	Science	Life Sci	242	Meets
2005-2006	08	Strand	Science	Physical Sci	250	Exceeds
2005-2006	08	Strand	Science	Physical Sci	251	Exceeds
2004-2005	07	Composite	Mathematics	Total	221	Not Specified
2004-2005	07	Composite	Reading & Literature	Lexile	1125	Not Specified
2004-2005	07	Composite	Reading & Literature	Total	239	Not Specified
2004-2005	07	Composite	Writing	Total	37	Conditionally Meets

Favorites ▾

District Summary | Strategic Plan | Enrollment | Attendance | Discipline | Assessments | Marks | AP Courses | Graduation Req | Programs | Analytics | Staff | Demo

Summary Dashboard

School
[All Schools] ▾

Grade
[All Grades] / PK / K ▾

Ethnicity
[All] ▾

Gender
[All] ▾

SPED
[All] ▾

ELL
[All] ▾

Sample Reports

Absence Analysis
Achievement Summary
Dropout Profile
Operating Performance vs. Budget
Operating Performance vs. Budget Detail
Students Not on Track

Other Links

Administrative Home
Teachers Home
School Enrollment Report
Google for Educators

School Attendance Trend

Year	Elementary	High School	Middle School
2002-2003	100.00%		
2003-2004	95.65%	92.01%	94.53%
2004-2005	95.22%	92.23%	94.19%
2005-2006	95.29%	91.69%	93.92%
2006-2007	95.42%	91.83%	94.18%
2007-2008	96.64%	93.53%	95.83%

■ Elementary   ■ High School   ■ Middle School

Final Marks by Subject

34.31% 43.77% 30.54% 34.25% 36.73%
27.16% 27.79% 26.88% 26.24% 25.63%
18.45% 16.15% 21.22% 19.62% 18.32%
9.67%   6.81%   9.75%   9.50%   9.91%
10.41% 5.48%   11.60% 10.40% 9.41%

English   Foreign   Mathematics   Sciences   Social

Assessment Passing Rate by Subject

Subject		
Writing	82.18%	72.84%
Science	75.25%	0.00%
Reading & Literature	83.84%	76.41%
Mathematics	82.44%	74.95%

Enrollment Count by Grade

3002 3001 2926 2935 2796 2833 2843 2907 2938 2862 3094 2918
114

PK 01 02 03 04 05 06 07 08 09 10 11 12

■PK ■01 ■02 ■03 ■04 ■05 ■06 ■07
■08 ■09 ■10 ■11 ■12
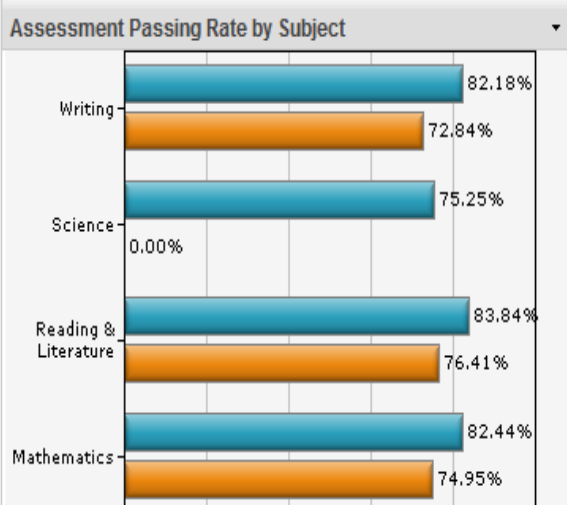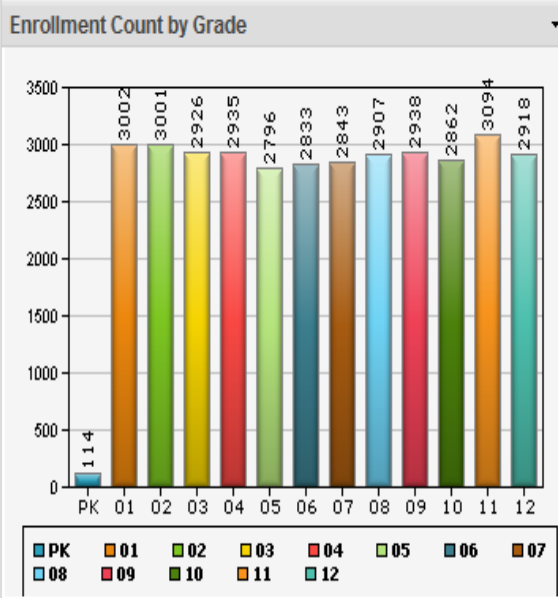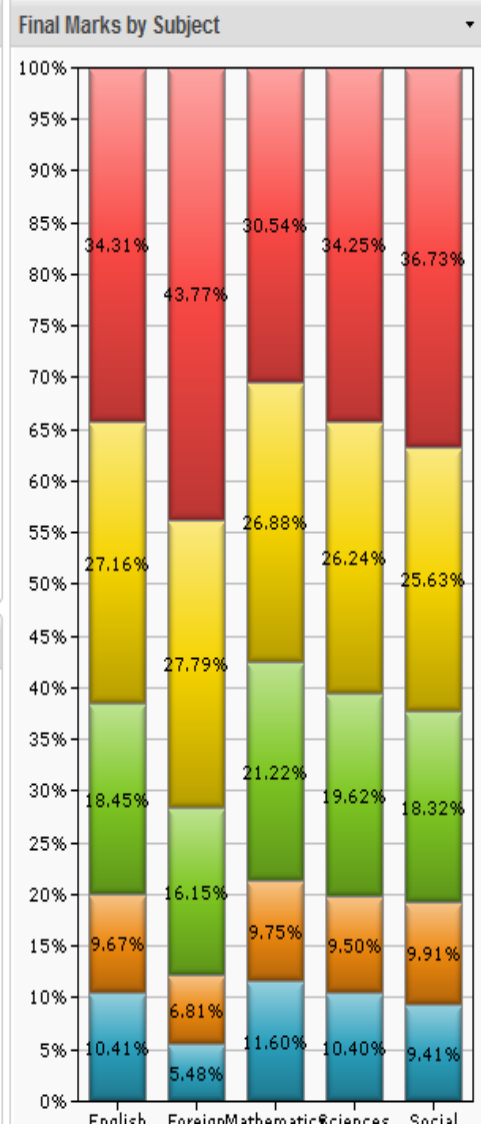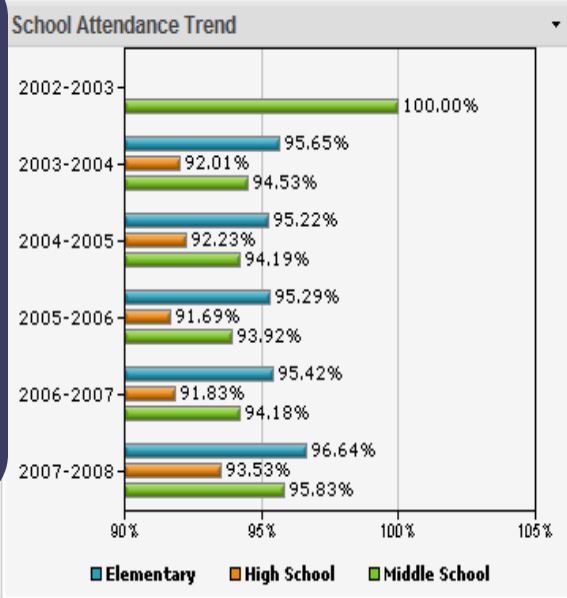
Program Participation by School

School	FARM	SPED	TAG
District Total	31.28%	10.89%	11.08%
Charter School	57.53%	21.92%	0.91%
Elm Park Middle	25.51%	12.47%	16.44%
Errol Flynn Elementary	24.26%	12.22%	5%
Faraday Elementary	55.48%	14.29%	3.09%
Forrest Mt. Elementary	9.63%	13.61%	5.96%
Fox Hills School	32.93%	18.16%	5.99%
Frahm Middle	12.75%	9.29%	16.48%
Frankford Middle	40.15%	14.74%	20.97%
Ghandi Elementary	80.2%	8.6%	1.3%

Partnerships
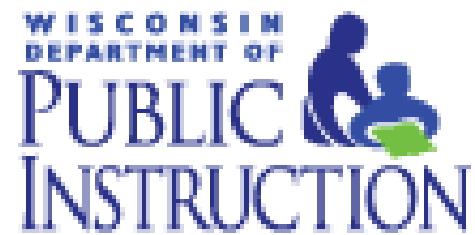
Using the Edvantage solution for value-added analytics

- Historically VA data was collected at individual districts and integrated into local DW's . Each deployment was unique.

- A common data model, data set, and data visualization that could be used for all districts and the state was designed and developed in collaboration by VersiFit, VARC, DPI, MMSD, and MPS.

- A key benefit to moving from the district model to a statewide approach is that we are now able to serve the small districts that don't possess sufficient enrollments to support district level growth/value-added analysis on their own.

CURRENT STATUS & NEXT STEPS

CURRENT STATUS

- Piloted WISEdash to a # of districts in June/July. Received very positive feedback.
- Statewide rollout in progress starting this week.
- Uses Secure Home like the other secure tools.
- Uses ASM like the other secure tools.
- Data/Dashboards Available Initially
  - Enrollment and Attendance
  - Assessments (including WSAS, ACT and AP) + WSAS GA
  - Student Growth Percentiles + GA
  - Student Profile (only available with a specific security role)
  - Student Search (only available with a specific security role)
- Intended Users: School and district staff interested in accessing a variety of dashboards and reports populated with their district/school data
- Secure release only; log in required and available only to school and district staff.

Next Steps

- 60+ Project Requests to be prioritized including:
- Create a WISEdash public reporting site and add additional datasets into the data warehouse and additional dashboards for analysis.
- Integration of the following datasets into the Edvantage DW for analysis:
    - Value-Added
    - Statewide SIS starting 2013
    - Additional assessment data into the data warehouse including ACCESS for ELL, NWEA MAP, and the new SMARTER assessment
    - Graduation cohort and Rate data
    - Postsecondary data (NSC + coursework)
    - Program Participation
    - Special Education
    - Staff Data
    - Early Childhood Data + Literacy
- Additional Documentation and Guided Analysis Workbooks
- Implement Dashboard Cohorting Feature
- Reporting
- Working with the CESAs to develop curriculum.

DPI INFORMATION

- Additional Information
  - DPI LDS Project – www.dpi.wi.gov/lds
  - SDPR – https://apps2.dpi.wi.gov/sdpr/spr.action
  - WISEmaps - https://wisemaps.dpi.wi.gov/
  - WISEdash - http://dpi.wi.gov/lds/dashhome.html
  - Secure Home Information – http://dpi.wi.gov/lds/securehomeinfo.html

- Contact
  - Melissa Straw (melissa.straw@dpi.wi.gov)

Q&A